



Washington Fish and Wildlife Office

Pacific Region

Technical Reports:

Washington Fish and Wildlife Office Environmental Contaminants staff assisted in both performing and writing the following technical reports. Reports are written in support of fish and wildlife resources such as interjurisdictional fishes, threatened and endangered species, nonindigenous aquatic nuisance species, and other high priority aquatic resources. USFWS staff names are listed in **bold**.

The publications are in PDF format, and will require software such as Adobe Acrobat or other open source PDF viewers to read.

Title	Year	Author
<u>Chemicals of emerging and legacy concern in tissues of white sturgeon (<i>Acipenser transmontanus</i>) in the Columbia River near Hanford, WA. (2009)</u>	2016	Nilsen, E.B., Davis, J.W. , and Hapke, W.B.
<u>Investigation of Contaminants in Feeds and Fish at FWS Pacific Region National Fish Hatcheries and the Ramifications to Human and Ecological Health</u>	2012	Davis, J.W. and Gannam, A.
<u>Chemical Contaminants, Pathogen Exposure and General Health Status of Live and Beach-Cast Washington Sea Otters (<i>Enhydra lutris kenyoni</i>)</u>	2010	Brancato, M.S., Milonas, L., Bowlby, C.E., Jameson, R. and Davis, J.W.
<u>Assessment of Contaminant Exposure and Effects on Ospreys Nesting along the Lower Duwamish River, Washington, 2006–07</u>	2009	Johnson, B. L., Henny, C. J., Kaiser, J. L., Davis, J. W. , and Schulz, E. P.
<u>Trumpeter Swan Lead Shot Poisoning Investigation in Northwest Washington and Southwest British Columbia: Environmental Contaminants Program Off-Refuge Investigations Project ID: 20031003.1</u>	2009	Schexnider, C. , Smith, M. and Wilson, L.
<u>Summary of Kootenai River White Sturgeon Studies</u>	2008	Campbell, J. and Davidson, T.
<u>Recurrent Die-Offs of Adult Coho Salmon Returning to Spawn in Puget Sound Lowland Urban Streams</u>	2007	McCarthy, S., J. Spromberg, J. Incardona, B. Feist, J. McIntyre, J. Labenia, M. Myers, L. Rhodes, G. Ylitalo, T. Collier, N. Scholz, L. Reed, K. Lynch, and Davis, J. W.



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Peer Reviewed Journals:

The following is a list of studies published in peer reviewed journals that Washington Fish and Wildlife Office Environmental Contaminants staff assisted in both performing and writing. USFWS staff names are listed in **bold**.

Citation	Year
Taylor, A., Wetzel, J., Mudrock, E., King, K. , Cameron, J., Davis, J. , McIntyre, J. Engineering Analysis of Plant and Fungal Contributions to Bioretention Performance. <i>Water</i> 2018, 10, 1226. DOI: 10.3390/w10091226 . Click to View	2018
McIntyre, J.K., Lundin, J.I., Cameron, J.R., Chow, M.I., Davis, J.W. , Incardona, J.P., and Scholz, N.L. (2018). Interspecies variation in the susceptibility of adult Pacific salmon to toxic urban stormwater runoff. <i>Environmental Pollution</i> , 238:196-203. DOI: 10.1016/j.envpol.2018.03.012. Click to View	2018
Feist, B.E., Buhle, E.R., Baldwin, D.H., Spromberg, J.A., Damm, S.E. , Davis, J.W. , and Scholz, N.L. (2017). Roads to ruin: conservation threats to a sentinel species across an urban gradient. <i>Ecological Applications</i> , 27:2382–2396. DOI:10.1002/eap.1615. Click to View	2017
McIntyre, J.K., Edmunds, R.C., Anulacion, B.F., Davis, J.W. , Incardona, J.P., Stark, J.D., and Scholz, N.L. (2016). Severe coal tar sealcoat runoff toxicity to fish is prevented by bioretention filtration. <i>Environmental Science and Technology</i> , 50:1570-1578. DOI:10.1021/acs.est.5b04928. Click to View	2016
McIntyre, J.K., Edmunds, R.C., Redig, M.G., Mudrock, E.M., Davis, J.W. , Incardona, J.P., Stark, J.D., and Scholz, N.L. (2016). Confirmation of Stormwater Bioretention Treatment Effectiveness Using Molecular Indicators of Cardiovascular Toxicity in Developing Fish. <i>Environmental Science and Technology</i> , 50:1561-1569. DOI:10.1021/acs.est.5b04786. Click to View	2016
Spromberg, J.A., Baldwin, D.H., Damm, S.E. , McIntyre, J.K., Huff, M., Sloan, C.A., Anulacion, B.A., Davis, J.W. , and Scholz, N.L. (2016). Coho salmon spawner mortality in western US urban watersheds: bioinfiltration prevents lethal stormwater impacts. <i>Journal of Applied Ecology</i> , 53: 398-407. DOI:10.1111/1365-2664.12534. Click to View	2016

Washington Fish And Wildlife Office Peer Reviewed Journal Publications Continued

McIntyre, J.K., Davis, J.W. , Hinman, C., Macneale, K.H., Anulacion, B.F., Scholz, N.L., and Stark, J.D. (2015). Soil bioretention protects juvenile salmon and their prey from the toxic effects of urban stormwater runoff. <i>Chemosphere</i> , 132:213-219. DOI:10.1016/j.chemosphere.2014.12.052. Click to View	2015
McIntyre, J.K., Davis, J.W. , Incardona, J.P., Stark, J.D., Anulacion, B.F., Scholz, N.L. (2014). Zebrafish and clean water technology: Assessing soil bioretention as a protective treatment for toxic urban runoff. <i>Science of the Total Environment</i> , 500: 173–180. DOI:10.1016/j.scitotenv.2014.08.066. Click to View	2014
Trumble, S.J., Robinson, E.M., Noren, S.R., Usenko, S., Davis, J. and Kanatous, S.B. (2012). Assessment of legacy and emerging persistent organic pollutants in Weddell seal tissue (<i>Leptonychotes weddellii</i>) near McMurdo Sound, Antarctica. <i>Science of the Total Environment</i> , 439:275–283. DOI:10.1016/j.scitotenv.2012.09.018. Click to View	2012
Feist, B.E., Buhle, E.R., Arnold, P., Davis, J.W. , and Scholz, N.L. (2011). Landscape Ecotoxicology of Coho Salmon Spawner Mortality in Urban Streams. <i>Public Library of Science ONE</i> , 6(8): e23424. DOI:10.1371/journal.pone.0023424. Click To View	2011
Scholz, N.L., Myers, M.S., McCarthy, S.G., Labenia, J.S., McIntyre, J.K., Ylitalo, G.M., Rhodes, L.D., Laetz, C.A., Stehr, C.M., French, B.L., McMillan B., Wilson, D., Reed, L., Lynch, K., Damm, S., Davis, J.W. , and Collier, T.K. (2011). Recurrent Die-Offs of Adult Coho Salmon Returning to Spawn in Puget Sound Lowland Urban Streams. <i>Public Library of Science ONE</i> , 6(12): e28013. DOI:10.1371/journal.pone.0028013. Click To View	2011
Walker, K.A., Davis, J.W. and Duffield, D.A. (2008). Activity Budgets and Prey Consumption of Sea Otters (<i>Enhydra lutris kenyoni</i>) in Washington. <i>Aquatic Mammals</i> , 34:393-401. DOI:10.1578/AM.34.4.2008.393. Click To View	2008
Labenia, J.S., Baldwin, D.H., French, B.L., Davis, J.W. and Scholz, N.L. (2007). Behavioral impairment and increased predation mortality in cutthroat trout exposed to carbaryl. <i>Marine Ecology Progress Series</i> , 329:1-11. DOI:10.3354/meps329001. Click To View	2007
Maule, A.G., Gannam, A.L. and Davis, J.W. (2007). Chemical contaminants in fish feeds used in federal salmonid hatcheries in the USA. <i>Chemosphere</i> , 67:1308-1315. DOI:10.1016/j.chemosphere.2006.11.029. Click To View	2007
Dubey, J.P., Zarnke, R., Thomas, N.J., Wong, S.K., Van Bonn W., Briggs, M., Davis, J.W. , Ewing, R., Mense M., Kwok, O.C.H., Romand, S., Thulliez, P. (2003). <i>Toxoplasma gondii</i>, <i>Neospora caninum</i>, <i>Sarcocystis neurona</i>, and <i>Sarcocystis canis</i>-like infections in marine mammals. <i>Veterinary Parasitology</i> , 116:275–296. DOI:10.1016/S0304-4017(03)00263-2. Click to View	2003